

INVENTORY OF INTERBASIN TRANSFERS OF WATER IN THE  
WESTERN CONTERMINOUS UNITED STATES

By Harold E. Petsch, Jr.

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## CONVERSION FACTORS

Inch-pound units used in this report may be converted to SI (International System) units by the following conversion factors:

<i>Multiply inch-pound units</i>	<i>By</i>	<i>To obtain SI units</i>
inch (in)	0.3048	centimeter (cm)
mile (mi)	1.609	kilometer (km)
acre-foot (acre-ft)	0.001233	cubic hectometer ( $\text{hm}^3$ )

## INVENTORY OF INTERBASIN TRANSFERS OF WATER IN THE WESTERN CONTERMINOUS UNITED STATES

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### ABSTRACT

This report presents information on the quantity of water transferred from one river basin to another in the western conterminous United States. The information is needed by water-system managers and planners to develop water budgets for major river basins, to examine the relative extent of existing interbasin transfers, and to define the importance of transferring water to meet regional water demands. All or parts of 11 major water-resources regions and 111 complete subregions comprise the study area; water is exported from 39 of these subregions.

### INTRODUCTION

Water is not always available in the quantity necessary to support the continuing expansion of human activities at all of the locations used or considered for human habitat. For a variety of reasons it generally has been more advantageous to transport additional water from surrounding areas to the water-using activity, rather than move the activity to where the necessary quantity of water is located. The desire for water goes beyond sustainment of life; it is also desired for enhancement of life. To fulfill those desires, many ways have been devised to convey water, some simple, some quite complex. This preliminary inventory of interbasin water transfers was undertaken to obtain information about the quantity of water conveyed between major river basins in the western conterminous United States. This information is needed by water-system managers and planners to develop water budgets for major river basins, to examine the relative extent of existing interbasin transfers, and to define the importance of interbasin transfers in meeting regional water demands. Western States included in this report are Arizona, California, Colorado, Idaho, Iowa, Kansas, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming.

For purposes of describing river basins, the United States is subdivided into 21 water-resources regions and 222 subregions by the U.S. Water Resources Council (Seaber and others, 1984). Eighteen regions and 204 subregions occupy the conterminous United States. Subregions are subdivided further into accounting units and cataloging units. These four levels of subdivision are called "hydrologic units." An eight-digit code uniquely identifies each of the four levels of hydrologic units. The first two digits refer to water-resources regions and the second two digits refer to subregions. The third two digits refer to accounting units and the last two refer to cataloging units. Seaber and others (1984) provide a brief description, history, and application of the hydrologic units. Because of innumerable diversions from the Nation's streams, lakes, and aquifers, the water-resources subregions were chosen as the base units to provide a manageable number of diversions for the interbasin-transfers inventory.

The eastern boundary of the study area (western conterminous United States) was arbitrarily selected on the basis of hydrologic-unit boundaries and the location of U.S. Geological Survey offices. Parts of the States of Iowa, Missouri, Oklahoma, South Dakota, and Texas are thereby excluded from the study area and parts of the States of Arkansas, Illinois, Louisiana, Minnesota, and Wisconsin are included in the study area. Within the study area are all or parts of 11 major water-resources regions and 111 subregions. The water-resources region and subregion boundaries, and the study-area boundary are shown on plate 1.

U.S. Geological Survey offices in 16 of the western States provided the information for the 111 water conveyances listed in this report. Each office was requested to fill out an information form (fig. 1) for every qualifying conveyance located within designated water-resources subregions. To qualify, the conveyance had to be involved with ongoing exports of water on September 30, 1982. Imports of water were to be reported only when they originated in either another country or in subregions adjacent to but outside the study area. No such imports were reported. Two conveyances export water to subregions outside the study area and four conveyances export water to Mexico.

CONVEYANCE-INFORMATION FORM  
FOR INTERBASIN TRANSFER OF WATER BETWEEN WATER RESOURCES SUBREGIONS

NAME OF CONVEYANCE \_\_\_\_\_

OWNER (OR OWNERS) OF CONVEYANCE \_\_\_\_\_

YEAR PLACED IN OPERATION \_\_\_\_\_

LOCATION INFORMATION  
POINT OF ORIGIN                  INITIAL DELIVERY POINT

WATER BODY NAME \_\_\_\_\_

STATE CODE \_\_\_\_\_

COUNTY CODE \_\_\_\_\_

8-DIGIT HYDROLOGIC  
UNIT CODE \_\_\_\_\_

ANNUAL DIVERSION IN ACRE-FEET FOR WATER YEAR

1973 \_\_\_\_\_ 1974 \_\_\_\_\_ 1975 \_\_\_\_\_

1976 \_\_\_\_\_ 1977 \_\_\_\_\_ 1978 \_\_\_\_\_

1979 \_\_\_\_\_ 1980 \_\_\_\_\_ 1981 \_\_\_\_\_

1982 \_\_\_\_\_

LOCATION OF MEASUREMENT POINTS(S) (GAGE NUMBERS, WELL NUMBERS, OR LAT.  
AND LONG. OF GAGES OR WELLS) \_\_\_\_\_

DATA SOURCES \_\_\_\_\_

REMARKS ON ACCURACY OF ESTIMATES \_\_\_\_\_

OTHER REMARKS \_\_\_\_\_

Figure 1.--Conveyance-information form.

Among the data elements to be completed on the information form were conveyance name, conveyance owner, and year the conveyance was placed in operation; and location information on the water body name, State, county, and hydrologic-unit code of both the conveyance point of origin and the conveyance initial delivery point. The point of origin is defined as the point along a conveyance at which all or most of the water to be transferred is intercepted. The initial delivery point was defined as that point within the receiving subregion where the exported water is either released to a natural channel, enters a reservoir from which the distribution of that water begins, or reaches a point along a canal or pipeline where the distribution of that water begins. Other data elements requested were the annual diversion, in acre-feet, for water years 1973-82; location of flow measuring point, to be given as either a stream-gaging station number, a well number, or the latitude and longitude of the measuring point; sources for the data; remarks concerning the accuracy of estimated diversions; and other remarks for the purpose of providing additional pertinent information about a conveyance. Even though the water-resources subregion, selected as the base unit for this report, can be expressed with the first four digits of the hydrologic-unit code, the complete 8-digit hydrologic-unit code was requested as a consideration for future needs.

The information came from reports and files of the U.S. Geological Survey, State, county, and city agencies, public and private utility companies, and International Boundary Commissions. Information was not available for all data elements for many conveyances. Only those data elements with the most complete information are presented in this report and those elements are: conveyance name, owner, and year placed in operation; the State, county, and hydrologic-unit code of the point of origin of the conveyance; the State, county, and hydrologic-unit code of the initial delivery point of the conveyance; and the annual diversion, in acre-feet, for water years 1973-82. Although no restrictions were placed on the minimum transfer to be included in this inventory, there are undoubtedly many small transfers that are not listed in the tables. The author would appreciate any references to errors or omissions in this preliminary inventory.

#### ORGANIZATION OF INVENTORY DATA

The conveyance information in this report is presented in four tables in the "Supplemental Data" section at the back of this report.

Table 1--Lists a conveyance reference number, the State in which the conveyance originates, the conveyance name, and the conveyance owner.

Reference number--An assigned number used to identify each conveyance that is in tables 2-4.

State of origin--The State name at the conveyance point of origin.

Name--Common names of each conveyance are listed in table 1. Other names for some conveyances also may be in use. In some cases no name could be found in common use and a name was assigned. For example, conveyance number 001 is unnamed and the name--Mahaska rural water conveyance--was assigned to the conveyance.

In 1973, only 90 of the 111 existing conveyances were in operation. Twenty-one new conveyances have been constructed in the past decade, an increase of 23 percent. The oldest of these conveyances is Placer Ditch, Oregon (conveyance 100), which probably was built about 1865. The Echo Lake Conduit, California (conveyance 092), was constructed in 1876. Fifty-six conveyances (about 50 percent) export to other subregions located within the same water-resources region. Fifty-five conveyances (about 50 percent) export water from one water-resources region to another. The water-resources region that exports the most water is the Lower Colorado Region (15) with annual exports of a little more than 4 million acre-feet per year. The largest quantity of water exported between subregions in the same water resources region is within the California region (18); intraregional exports are a little less than 3.5 million acre-feet per year. There were no exports originating in New Mexico, South Dakota, and Washington or in the included parts of Arkansas, Illinois, Minnesota, and Wisconsin during water years 1973-82.

#### SUMMARY AND CONCLUSIONS

Information and data were obtained for 111 conveyances that export water between water-resources subregions. These conveyances originate in 17 States in the western conterminous United States. The earliest of these diversions began in about 1865; the latest began in 1982. The largest diversion exports more than 3 million acre-feet of water per year; the smallest exports about 5 acre-feet of water per year. About 45 percent of the water exported between subregions leaves the region of origin. This information provides the basis for computing basin imports and exports for use in regional water budgets, for examining the relative extent of existing interbasin transfers, and for defining the importance of transferring water to meet regional water demands. There were no exports originating in New Mexico, South Dakota, and Washington or in the included parts of Arkansas, Illinois, Minnesota, and Wisconsin during water years 1973-82.

Owner--The entity that owns the conveyance. The listed entity for some conveyances may be the entity currently responsible for the operation of the conveyance. In some cases the name of the owner could not be found. For example, the owner of conveyance number 093 is unknown.

Table 2--For each conveyance, table 2 lists the State, county, and hydrologic-unit codes for the point of origin and the initial delivery point and the year that the conveyance was placed in operation (see table 5 for a definition of the State and county codes and see table 6 for a definition of the hydrologic-unit codes).

Table 3--The annual exports of water, in acre-feet, for each conveyance, subtotals of annual exports from one water-resources subregion to another, total annual exports from each subregion, and a grand total of annual exports from all subregions, for water years 1973-82, are listed in table 3. For example, in 1982, 64,380 acre-feet of water was exported from the Lower Green subregion (1406) to the Great Salt Lake subregion (1602). Total exports of water from the Lower Green subregion to all other subregions was 77,340 acre-feet and the grand total of annual exports from all subregions was 12,433,536 acre-feet. The subregion exports of water for water year 1982 are graphically portrayed on plate 1.

Table 4--The annual exports of water, in acre-feet, for each conveyance, subtotals of annual exports from one water-resources region to another, total annual exports from each region, and grand total of annual exports from all regions, for water years 1973-82, are listed in table 4. For example, in 1982, 437,222 acre-feet of water was exported from the Upper Colorado region (14) to the Missouri region (10). Total exports of water from the Upper Colorado region to all other regions was 820,550 acre-feet and the grand total of annual exports from all regions was 4,975,122 acre-feet. Some conveyances listed in table 3 are not listed in table 4 because they export water from one subregion to another subregion within the same region. For example, conveyance 060 exports water from the Gunnison subregion (1402) to the Colorado Headwaters subregion (1401) and is listed in table 3 but not table 4 because both subregions are in the Upper Colorado region (14).

## DATA ANALYSIS

Of the 111 subregions examined in this study, water is exported from only 39 subregions using, coincidentally, 111 conveyances. These conveyances originate in 17 States and range from the conveyance of the Sumner County Rural Water District #5 in Kansas, which exports about 5 acre-feet per year, to the All American Canal (Arizona-California) which exports more than 3 million acre-feet per year. The total quantity of water exported by the 111 conveyances averaged a little less than 12 million acre-feet per year between 1973 and 1982. This is equivalent to the average annual discharge of the Connecticut River at Thompsonville, Connecticut (U.S. Geological Survey, 1981a); Coosa River at Jordan Dam near Wetumpka, Alabama (Rollins and others, 1982); Mississippi River at Prescott, Wisconsin (U.S. Geological Survey, 1981c); Colorado River near Grand Canyon, Arizona (U.S. Geological Survey, 1982b); or Skagit River near Mount Vernon, Washington (U.S. Geological Survey, 1981b).

#### SELECTED REFERENCES

- National Bureau of Standards, 1970, States and outlying areas of the United States: Federal Information Processing Standards (FIPS) Publication 5-1, 4 p.
- 1982, Counties and county equivalents to the States of the United States and the District of Columbia: Federal Information Processing Standards (FIPS) Publication 6-3, 39 p.
- Rollins, H.C., Sedberry, F.C., Ming, E.G., and Giles, I.A., 1982, Water resources data for Alabama: U.S. Geological Survey Water-Data Report AL-82-1, 477 p.
- Seaber, P.R., Kapinos, F.P., and Knapp, G.L., 1984, State hydrologic unit maps: U.S. Geological Survey Open-File Report 84-708, 216 p.
- U.S. Geological Survey, 1981a, Water resources data for Connecticut: U.S. Geological Survey Water-Data Report CT-81-1, 338 p.
- U.S. Geological Survey, 1981b, Water resources data for Washington, volume 1. Western Washington: U.S. Geological Survey Water Data Report WA-81-1, 348 p.
- U.S. Geological Survey, 1981c, Water resources data for Wisconsin: U.S. Geological Survey Water-Data Report WI-81-1, 424 p.
- U.S. Geological Survey, 1982a, Codes for the identification of hydrologic units in the United States and the Caribbean outlying areas, A U.S. Geological Survey data standard: U.S. Geological Survey Circular 878-A, 118 p.
- U.S. Geological Survey, 1982b, Water resources data for Arizona: U.S. Geological Survey Water-Data Report AZ-82-1, 545 p.

**SUPPLEMENTAL DATA**

Table 1.--Conveyance reference number, State of origin, name, and owner

Reference number 1/	State of origin	Name	Owner
001	Iowa	Mahaska rural water conveyance (unnamed)	Mahaska Rural Water System, Inc.
002	Iowa	Wapello rural water conveyance (unnamed)	Wapello Rural Water Association
003	Iowa	Jasper rural water conveyance (unnamed)	Jasper Rural Water Association
004	Montana	St. Mary Canal	U.S. Bureau of Reclamation
005	North Dakota	Antelope Valley Station, AVS, raw water pipeline (60-inch diameter)	Basin Electric Power Cooperative
006	Wyoming	City of Cheyenne Stage 1 Diversion: Douglas Creek to Middle Crow Creek pipeline	City of Cheyenne
007	Nebraska	Sutherland Canal	Nebraska Public Power District
008	Colorado	Cameron Pass Ditch	Water Supply and Irrigation Company
009	Colorado	Michigan Ditch	City of Fort Collins
010	Colorado	Skyline Ditch	Water Supply and Storage Company
011	Colorado	Laramie - Poudre Tunnel	Water Supply and Storage Company
012	Colorado	Wilson Supply Ditch	Divide Reservoir and Canal Company
013	Wyoming	Hay enlargement of McDowell Ditch	Blair and Hay, Land and Livestock Company
014	Nebraska	Metropolitan Utilities District northeast Omaha area conveyance (unnamed)	Metropolitan Utilities District Municipal System
015	Nebraska	Loup River power canal	Loup River Public Power District
016	Iowa	Clay County Rural Water District conveyance (unnamed)	Clay County Rural Water District
017	Iowa	Southern Sioux County rural water system conveyance (unnamed)	Southern Sioux County Rural Water System, Inc.
018	Iowa	West Central Iowa Rural Water Association conveyance (unnamed)	West Central Iowa Rural Water Association
019	Iowa	Shelby County Rural Water District #1 conveyance (unnamed)	Shelby County Rural Water District #1
020	Kansas	Johnson County Rural Water District #7 conveyance (unnamed)	City of Olathe; City of Edgerton
021	Kansas	Douglas County Rural Water District #5 conveyance (unnamed)	City of Lawrence
022	Kansas	Shawnee County Rural Water District #8 conveyance (unnamed)	City of Topeka
023	Kansas	Johnson County Rural Water District #5 conveyance (unnamed)	City of Olathe; City of Edgerton
024	Kansas	Johnson County Rural Water District #2 conveyance (unnamed)	City of Olathe; City of Edgerton

Table 1.--Conveyance reference number, State of origin, name, and owner--Continued

Reference number 1/ State of origin	Name	Owner
025 Iowa	Rathbun Regional Water Association conveyance (first unnamed)	Rathbun Regional Water Association
026 Iowa	Rathbun Regional Water Association conveyance (second unnamed)	Rathbun Regional Water Association
027 Missouri	Springfield pipeline (unnamed)	City of Springfield, City Utilities
028 Colorado	Aurora-Homestead Pipeline	City of Aurora
029 Kansas	McPherson County Rural Water District #4 conveyance (unnamed)	City of McPherson
030 Kansas	Russell County Rural Water District #3 conveyance (unnamed)	City of Otis; Russell County Rural Water District #3
031 Kansas	Sumner County Rural Water District #4 conveyance (unnamed)	City of Arkansas City
032 Kansas	Sumner County Rural Water District #5 conveyance (unnamed)	City of Conway Springs
033 Kansas	City of Milan conveyance (unnamed)	City of Conway Springs
034 Kansas	Harvey County Rural Water District #1 conveyance (unnamed)	City of Newton
035 Oklahoma	Tulsa Pipeline	City of Tulsa
036 Oklahoma	Atoka Pipeline	City of Oklahoma City
037 Louisiana	Sabine River Diversion Canal	State of Louisiana, Department of Transportation and Development
038 Louisiana	International Paper Company Pipeline (unnamed)	International Paper Company
039 Texas	Tawakoni Pipeline	Sabine River Authority
040 Colorado	Medano Ditch	Cuern Verde Cattle Company
041 Colorado	Vidler Tunnel	Vidler Tunnel Corporation
042 Colorado	Moffat Water Tunnel	City and County of Denver, Board of Water Commissioners
043 Colorado	Grand River Ditch	Water Supply and Storage Company
044 Colorado	Harold D. Roberts Tunnel 1	City and County of Denver, Board of Water Commissioners
045 Colorado	Eureka Ditch	City of Loveland
046 Colorado	Alva B. Adams Tunnel	U.S. Bureau of Reclamation
047 Colorado	Berthoud Pass Ditch	Farmers Reservoir and Irrigation Company
048 Colorado	Boreas Pass Ditch	City of Englewood
049 Colorado	Wurtz Ditch	Pueblo Board of Water Works
050 Colorado	Twin Lakes Tunnel	Twin Lakes Reservoir and Canal Company

Table 1--Conveyance reference number, State of origin, name, and owner--Continued

Reference number 1/	State of origin	Name	Owner
051	Colorado	Ewing Ditch	Pueblo Board of Water Works
052	Colorado	Homestake Tunnel	City of Aurora; City of Colorado Springs, Department of Public Utilities
053	Colorado	Hoosier Pass Tunnel	City of Colorado Springs, Department of Public Utilities
054	Colorado	Columbine Ditch (Fremont Pass)	Pueblo Board of Water Works
055	Colorado	Busk-Ivanhoe Tunnel	Highline Canal Company and Pueblo Board of Water Works
056	Colorado	Charles H. Boustead Tunnel	U.S. Bureau of Reclamation
057	Colorado	Larksprur Ditch	Catlin Canal Company
058	Colorado	Tabor Ditch	State of Colorado, Department of Natural Resources, Division of Wildlife
059	Colorado	Tarbell Ditch	George and Larry Ward, Mel Coleman, and C.J. Weiss
060	Colorado	Divide Creek highline feeder ditch	Divide Creek Highline Ditch Company
061	Colorado	Main Canal 1	Montezuma Valley Irrigation Company
062	Colorado	Main Canal 2	Montezuma Valley Irrigation Company
063	Colorado	Summit Reservoir outlet canal	Summit Reservoir and Irrigation Company
064	Wyoming	City of Cheyenne Stage 1 Diversion: Little Snake River to Hogpark Creek, conduit and tunnel	City of Cheyenne
065	Colorado	Sarvis Ditch	Grand River Ranch
066	Colorado	Stillwater Ditch	Stillwater Ditch Company
067	Colorado	Dome Creek Ditch	Jack Bruunel
068	Utah	Strawberry Tunnel	Strawberry Water Users Association
069	Utah	Duchesne Tunnel	Provo River Water Users Association
070	Utah	Fairview Tunnel	San Pitch Water Users Association
071	Utah	Spring City Tunnel	San Pitch Water Users Association
072	Utah	Ephraim Tunnel	San Pitch Water Users Association
073	Colorado	Weminuche Pass Ditch (also known as Raber-Lohr Ditch)	State of Colorado, Department of Natural Resources, Division of Wildlife
074	Colorado	Williams Creek Squaw Pass Ditch (also known as Squaw Pass Ditch)	Bill Gresham
075	Colorado	Treasure Pass Diversion Ditch (also known as Treasure Pass Ditch)	Falk brothers, Fred and Lester
076	Colorado	Pine River-Weminuche Pass Ditch (also known as Fuchs Ditch)	San Luis Valley Water Conservancy District and others

Table 1.--Conveyance reference number, State of origin, name, and owner--Continued

Reference number	State of origin	Name	Owner
077	Colorado	Don La Font Ditches 1 & 2 *also known as Piedra Pass Ditch (east & west), and as Harley Fuchs Ditches 1 & 2*	State of Colorado, Department of Natural Resources, Division of Wildlife
078	Colorado Nevada	Azotea Tunnel Alfred Merritt Smith Water Treatment Plant	U.S. Bureau of Reclamation State of Nevada through Southern Nevada Water System
079		conveyance (unnamed)	Phelps-Dodge Mining Company
080	Arizona	Pipeline from Blue Ridge Reservoir (unnamed)	U.S. Bureau of Reclamation
081	Arizona	Cila Gravity Main Canal	Metropolitan Water District of southern California
082	California	Colorado River Aqueduct near Parker Dam, Arizona	Imperial Irrigation District
083	California	All American Canal (below Pilot Knob Wasteway)	U.S. Bureau of Reclamation
084	Arizona	Drains and wastewater to Mexico	U.S. Bureau of Reclamation
085	Arizona	242 Well Field lateral	Phelps-Dodge Corporation
086	Arizona	Pipeline from pumping plant on Black River (unnamed)	Salt River Valley Water Users Association
087	Arizona	Eastern Canal (at head)	Salt River Valley Water Users Association
088	Arizona	East Branch Consolidated Canal	Roosevelt Water Conservation District
089	Arizona	Roosevelt Water Conservation District main canal	U.S. Bureau of Reclamation
090	Arizona	Wellton-Mohawk main outlet drain extension below Morelos Dam	Wellton-Mohawk bypass drain
091	Arizona	Echo Lake Conduit	U.S. Bureau of Reclamation
092	California	Little Truckee River diversion conveyance (unnamed)	Pacific Gas and Electric Company
093	California	(unnamed)	Unknown
094	Nevada	Wendover transmission pipeline	Wendover, Utah
095	Idaho	Diversion from Birch Creek to Devil Creek (unnamed)	Unknown - City of Malad perhaps
096	Idaho	Diversion from Deadwood Creek to Devil Creek near Three Creek, Idaho (unnamed)	Cedar Mesa Reservoir and Canal Company
097	Idaho	Diversion from Big Gulch to Little Lost River (unnamed)	Summit Lake Ranch
098	Idaho	Transmountain diversion near Knox, Idaho (unnamed)	U.S. Bureau of Reclamation
099	Idaho	Boulder Creek diversion (Yantis Ditch) near Tamarack, Idaho	Weiser Irrigation District

Table 1.--Conveyance reference number, State of origin, name, and owner--Continued

Reference number 1/ 1/	State of origin	Name	Owner
100	Oregon	Placer Ditch (originally known as Pete Mann Ditch)	Pete Mann Irrigation Company (last owner of record)
101	Oregon	J.W. Barney Tunnel	City of Hillsboro
102	Oregon	McMinnville Tunnel	City of McMinnville, Department of Water and Light
103	Oregon	Cascade Canal	Medford Irrigation District
104	Oregon	Klamath-Rogue net diversion through Green Springs powerplant	Talent Irrigation District. U.S. Bureau of Reclamation.
105	California	Judge Francis Carr powerplant tunnel (Lewiston-Whisteytown Tunnel)	U.S. Bureau of Reclamation
106	California	Petaluma Aqueduct	Sonoma County Water Agency
107	California	Thoms Creek diversion conveyance (unnamed)	Unknown
108	California	Friant-Kern Canal	U.S. Bureau of Reclamation
109	California	Hetch Hetchy Aqueduct	City and County of San Francisco
110	California	California Aqueduct	State of California, Department of Water Resources
111	California	Los Angeles Aqueduct	City of Los Angeles, Department of Water and Power

1/ Reference number used to identify conveyances in tables 2-6.

Table 2.--Conveyance point of origin, initial delivery point, and year placed in operation

Ref- erence number	Point of origin			Initial delivery point			Year placed in operation
	State code	County code	Hydrologic unit code	State code	County code	Hydrologic unit code	
001	19	123	07080105	19	123	07100009	1980
002	19	179	07100009	19	179	07080107	1976
003	19	125	07100009	19	127	07080105	1982
004	30	035	10010002	30	035	10050001	1918
005	38	057	10110101	38	057	10130201	1982
006	56	001	10180002	56	021	10190009	1964
007	31	101	10180014	31	101	10190018	1935
008	08	057	10180001	08	069	10190007	1882
009	08	057	10180001	08	069	10190007	1902
010	08	069	10180010	08	069	10190007	1895
011	08	069	10180010	08	069	10190007	1914
012	08	069	10180010	08	069	10190007	1902
013	56	013	10180006	56	013	14040104	1926
014	31	153	10200202	31	055	10230006	(1/)
015	31	125	10210009	31	037	10200103	1936
016	19	041	10230003	19	041	07100004	1981
017	19	167	10230002	19	149	10170203	1981
018	19	027	10240002	19	009	07100006	1976
019	19	165	10240002	19	155	10230007	1979
020	20	091	10270104	20	121	10290102	1974
021	20	045	10270104	20	059	10290101	1975
022	20	177	10270102	20	139	10290101	1963
023	20	091	10270104	20	091	10300101	1970
024	20	091	10270104	20	121	10300101	1964
025	19	007	10280201	19	117	07100008	1978
026	19	007	10280201	19	177	07110001	1978
027	29	077	10290106	29	077	11010002	1883
028	08	015	11020001	08	093	10190001	1967
029	20	113	11030012	20	113	10260008	1975
030	20	009	11030008	20	167	10260006	1974
031	20	035	11030013	20	191	11060005	1974
032	20	191	11030013	20	191	11060005	1976
033	20	191	11030013	20	191	11060005	(1/)
034	20	079	11030012	20	115	11070202	1976
035	40	097	11070209	40	143	11110101	1967
036	40	005	11140103	40	027	11100302	1964
037	22	019	12010005	22	019	08080206	1981
038	22	031	12010004	22	031	11140206	1981
039	48	231	12010001	48	113	12030106	1960
040	08	109	13010003	08	055	11020006	(1/)
041	08	117	14010002	08	019	10190004	1971
042	08	049	14010001	08	047	10190005	1936

Table 2.--Conveyance point of origin, initial delivery point, and year placed in operation--Continued

Ref- erence number	Point of origin			Initial delivery point			Year placed in operation
	State code	County code	Hydrologic unit code	State code	County code	Hydrologic unit code	
043	08	049	14010001	08	069	10190007	1892
044	08	117	14010002	08	059	10190002	1963
045	08	049	14010001	08	069	10190006	1940
046	08	049	14010001	08	069	10190006	1947
047	08	049	14010001	08	019	10190004	1910
048	08	117	14010002	08	093	10190001	1909
049	08	037	14010003	08	065	11020001	1932
050	08	097	14010004	08	065	11020001	1935
051	08	037	14010003	08	065	11020001	1880
052	08	097	14010003	08	065	11020001	1967
053	08	117	14010002	08	119	11020003	1957
054	08	037	14010003	08	065	11020001	1931
055	08	097	14010004	08	065	11020001	1925
056	08	097	14010004	08	065	11020001	1972
057	08	109	14020003	08	109	11020001	1935
058	08	053	14020002	08	053	13010001	1928
059	08	109	14020003	08	109	13010004	1914
060	08	051	14020004	08	077	14010005	1916
061	08	083	14030002	08	083	14080202	1885
062	08	083	14030002	08	083	14080202	1885
063	08	083	14030002	08	083	14080202	1913
064	56	007	14050003	56	007	10180002	1964
065	08	049	14050001	08	049	14010001	1911
066	08	045	14050001	08	107	14010001	1903
067	08	045	14050001	08	045	14010001	1893
068	49	051	14060004	49	049	16020202	1915
069	49	013	14060003	49	051	16020203	1953
070	49	039	14060009	49	039	16030004	1967
071	49	039	14060009	49	039	16030004	1949
072	49	039	14060009	49	039	16030004	1949
073	08	053	14080101	08	053	13010001	1937
074	08	053	14080102	08	053	13010001	1938
075	08	079	14080101	08	079	13010001	1929
076	08	053	14080101	08	053	13010001	1937
077	08	079	14080102	08	079	13010001	1940
078	08	007	14080101	35	039	13020102	1970
079	32	003	15010005	32	003	16060015	1973
080	04	005	15020008	04	007	15060203	1964
081	04	027	15030107	04	027	15070201	1943
082	06	071	15030101	06	065	18070203	1939
083	06	025	15030107	06	065	18100200	1940
084	04	027	15030108	85	999	85990000	1910

Table 2.--Conveyance point of origin, initial delivery point, and year placed in operation--Continued

Ref- erence number	Point of origin			Initial delivery point			Year placed in operation
	State code	County code	Hydrologic unit code	State code	County code	Hydrologic unit code	
085	04	027	15030108	85	999	85990000	1978
086	04	009	15060101	04	009	15040004	1945
087	04	013	15060106	04	013	15050100	1889
088	04	013	15060106	04	013	15050100	1894
089	04	013	15060106	04	013	15050100	1920
090	04	027	15070201	85	999	85990000	1965
091	04	027	15070201	85	999	85990000	1977
092	06	017	16050101	06	017	18020129	1876
093	06	017	16050101	06	091	18020123	(2/)
094	32	007	16060008	32	007	16020306	1943
095	16	071	17040208	16	071	16010204	(1/)
096	16	073	17050102	16	083	17040213	1920
097	16	037	17060202	16	037	17040217	(1/)
098	16	085	17060208	16	085	17050120	1936
099	16	003	17060210	16	003	17050124	(1/)
100	41	023	17070202	41	001	17050202	1865
101	41	067	17100203	41	067	17090010	1969
102	41	071	17100203	41	071	17090008	1968
103	41	035	18010203	41	029	17100307	1924
104	41	035	18010206	41	029	17100308	1958
105	06	105	18010211	06	089	18020112	1963
106	06	097	18010110	06	097	18050002	1962
106	06	049	18020002	06	049	18080001	1939
107	06	019	18040006	06	029	18030012	1949
109	06	109	18040009	06	081	18050004	1934
110	06	001	18040003	06	037	18070102	1971
111	06	027	18090103	06	037	18070102	1913

1/ Not determined.

2/ Prior to 1925.

Table 3.--Exports of water from water-resources subregions, water years 1973-82

[Dashes in year column indicate no data]

Table 3.-Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
006	1018 1019	4,530	4,520	6,250	11,210	5,960	3,320	5,530	4,930	6,090	8,530		
007	1018 1019	821,660	106,5120	632,490	487,070	561,250	723,670	464,950	667,840	509,290	504,490		
008	1018 1019	407	296	276	220	215	201	234	154	123	328		
009	1018 1019	1,890	1,790	1,710	1,770	466	261	726	1,120	1,120	2,270		
010	1018 1019	2,680	651	1,680	0	2,000	0	424	205	1,280	1,700		
011	1018 1019	16,690	17,870	17,130	18,770	15,510	19,060	15,040	15,870	16,100	17,880		
012	1018 1019	1,380	1,340	1,950	1,900	559	1,840	375	287	2,440	3,020		
	Subtotal 1018 1019	849,237	1,094,587	661,486	520,940	585,960	748,352	487,279	690,406	536,443	538,218		
013	1018 1404	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)		
	Subtotal 1018 1404	---	---	---	---	---	---	---	---	---	---		
	Total 1018	849,237	1,094,587	661,486	520,940	585,960	748,352	487,279	690,406	536,443	538,218		
014	1020 1023	32,000	30,000	28,700	33,000	37,000	40,000	43,200	41,700	42,500	40,000		
	Subtotal 1020 1023	32,000	30,000	28,700	33,000	37,000	40,000	43,200	41,700	42,500	40,000		
	Total 1020	32,000	30,000	28,700	33,000	37,000	40,000	43,200	41,700	42,500	40,000		
015	1021 1020	1,326,000	1,192,000	1,022,000	1,013,000	1,284,000	1,299,000	1,240,000	1,063,000	1,202,000	1,426,000		
	Subtotal 1021 1020	1,326,000	1,192,000	1,022,000	1,013,000	1,284,000	1,299,000	1,240,000	1,063,000	1,202,000	1,426,000		
	Total 1021	1,326,000	1,192,000	1,022,000	1,013,000	1,284,000	1,299,000	1,240,000	1,063,000	1,202,000	1,426,000		

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
016	1023 0710	---	---	---	---	---	---	---	---	---	---	7	15
	Subtotal 1023 0710	---	---	---	---	---	---	---	---	---	---	7	15
017	1023 1017	---	---	---	---	---	---	---	---	---	---	58	116
	Subtotal 1023 1017	---	---	---	---	---	---	---	---	---	---	58	116
	Total 1023	---	---	---	---	---	---	---	---	---	---	65	131
19	018	1024 0710	---	---	---	12	24	36	48	60	72	72	84
	Subtotal 1024 0710	---	---	---	12	24	36	48	60	72	72	84	
019	1024 1023	---	---	---	---	---	---	7	14	20	20	28	
	Subtotal 1024 1023	---	---	---	---	---	---	7	14	20	20	28	
	Total 1024	---	---	---	12	24	36	55	74	92	92	112	
020	1027 1029	---	2/8	2/9	2/10	2/11	2/12	2/13	2/14	2/15	2/15		
021	1027 1029	---	---	2/18	2/20	2/22	2/24	2/25	2/26	2/27	2/27		
022	1027 1029	2/130	2/140	2/150	2/160	2/165	2/170	2/175	2/180	2/185	2/185		
	Subtotal 1027 1029	130	148	177	190	198	206	213	220	227	227	233	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
023	1027 1030			2/90	2/95	2/100	2/105	2/110	2/115	2/120	2/125	2/130	2/135
024	1027 1030			2/180	2/200	2/220	2/240	2/260	2/280	2/300	2/320	2/340	2/360
Subtotal	1027 1030			270	295	320	345	370	395	420	445	470	495
Total	1027			400	443	497	535	568	601	633	665	697	728
025	1028 0710			---	---	---	---	---	154	309	463	617	772
Subtotal	1028 0710			---	---	---	---	---	154	309	463	617	772
026	1028 0711			---	---	---	---	---	77	154	231	309	386
Subtotal	1028 0711			---	---	---	---	---	77	154	231	309	386
Total	1028			---	---	---	---	---	231	463	694	926	1,158
027	1029 1101			13,224	13,867	13,500	14,235	14,969	15,980	17,269	6,327	11,226	
Subtotal	1029 1101			13,224	13,867	13,500	14,235	14,969	15,980	17,269	6,327	11,226	
Total	1029			13,224	13,867	13,500	14,235	14,969	15,980	17,269	6,327	11,226	
028	1102 1019			6,750	10,710	8,880	8,110	10,460	12,560	12,410	9,280	12,350	2,140
Subtotal	1102 1019			6,750	10,710	8,880	8,110	10,460	12,560	12,410	9,280	12,350	2,140
Total	1102			6,750	10,710	8,880	8,110	10,460	12,560	12,410	9,280	12,350	2,140

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance				Water-year exports (acre-feet)								
Ref- erence number	Subregion	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
029	1103 1026	---	---	---	2/9	2/9	2/9	2/9	2/9	2/9	2/9	2/9
030	1103 1026	---	2/50	2/60	2/70	2/80	2/100	2/120	2/140	2/160	2/180	
Subtotal	1103 1026	---	50	69	79	89	109	129	149	169	189	
031	1103 1106	---	2/26	2/29	2/32	2/35	2/38	2/40	2/42	2/44	2/46	
032	1103 1106	---	---	---	2/3	2/3	2/4	2/4	2/4	2/5	2/5	
033	1103 1106	---	---	2/100	2/100	2/100	2/105	2/105	2/105	2/110	2/110	
Subtotal	1103 1106	---	26	129	135	138	147	149	151	159	161	
034	1103 1107	---	---	---	2/18	2/19	2/20	2/21	2/22	2/23	2/24	
Subtotal	1103 1107	---	---	---	1.8	1.9	2.0	2.1	2.2	2.3	2.4	
Total	1103	---	76	198	232	246	276	299	322	351	374	
035	1107 1111	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	
Subtotal	1107 1111	---	---	---	---	---	---	---	---	38,800	---	
Total	1107	---	---	---	---	---	---	---	---	38,800	---	
036	1114 1110	21,918	20,780	26,690	31,650	45,940	6,910	11,720	43,210	62,650	34,350	
Subtotal	1114 1110	21,918	20,780	26,690	31,650	45,940	6,910	11,720	43,210	62,650	34,350	
Total	1114	21,918	20,780	26,690	31,650	45,940	6,910	11,720	43,210	62,650	34,350	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)										
Ref- erence number	Subregion	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
037	1201 0808	---	---	---	---	---	---	---	---	---	32,570	32,430
	Subtotal 1201 0808	---	---	---	---	---	---	---	---	---	32,570	32,430
038	1201 1114	---	---	---	---	---	---	---	---	460	8,940	
	Subtotal 1201 1114	---	---	---	---	---	---	---	---	460	8,940	
039	1201 1203	49,050	42,100	19,180	23,280	27,690	23,560	65,340	43,560	43,580	28,120	
	Subtotal 1201 1203	49,050	42,100	19,180	23,280	27,690	23,560	65,340	43,560	43,580	28,120	
Total 1201		49,050	42,100	19,180	23,280	27,690	23,560	65,340	43,560	43,580	28,120	
22												
040	1301 1102	2/1,100	0	416	660	425	517	1,460	2/900	181	1,290	
	Subtotal 1301 1102	1,100	0	416	660	425	517	1,460	900	181	1,290	
Total 1301		1,100	0	416	660	425	517	1,460	900	181	1,290	
041	1401 1019	57	58	12	31	276	256	627	376	881	586	
042	1401 1019	33,170	68,130	58,580	62,950	56,000	81,590	55,740	39,260	53,920	87,840	
043	1401 1019	14,760	15,640	21,830	18,350	12,760	25,230	17,940	13,330	13,700	21,860	
044	1401 1019	2,250	34,730	47,260	63,050	92,140	133,800	73,850	51,940	110,200	68,010	
045	1401 1019	0	15	0	7	0	42	60	0	0	0	
046	1401 1019	230,700	231,100	239,300	256,100	294,400	262,700	297,300	158,900	252,600	248,500	
047	1401 1019	753	809	402	359	322	677	373	777	463	426	
048	1401 1019	0	6	39	68	13	174	154	33	0	0	
	Subtotal 1401 1019	281,690	350,488	367,423	400,915	449,911	504,469	346,044	264,216	431,764	427,222	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
049	1401 1102	3,250	2,910	3,430	2,590	765	3,840	4,310	3,340	851	3,780		
050	1401 1102	55,900	43,490	49,540	41,850	22,490	51,770	47,060	22,810	34,340	54,030		
051	1401 1102	1,110	934	1,140	904	534	1,280	1,590	1,160	428	1,120		
052	1401 1102	23,400	25,030	59,870	0	31,040	0	30,780	31,960	21,290	19,720		
053	1401 1102	5,830	10,780	8,460	10,750	2,530	9,750	9,910	5,700	5,650	10,590		
054	1401 1102	1,900	1,690	2,000	1,660	1,010	1,990	2,040	1,780	921	1,910		
055	1401 1102	6,320	5,680	7,100	4,800	3,110	7,470	6,710	5,950	4,560	6,840		
056	1401 1102	36,580	33,830	36,870	26,940	11,410	49,960	54,020	55,390	34,190	75,490		
Subtotal	1401 1102	134,290	124,344	168,410	89,494	72,889	126,060	156,420	128,090	102,230	173,480		
Total	1401	415,980	474,832	535,833	490,409	522,800	630,529	502,464	392,706	533,994	600,702		
057	1402 1102	759	237	328	199	0	54	241	371	127	120		
Subtotal	1402 1102	759	237	328	199	0	54	241	371	127	120		
058	1402 1301	1,330	209	955	540	149	719	1,300	894	671	1,600		
059	1402 1301	74	166	692	662	172	503	296	542	291	735		
Subtotal	1402 1301	1,404	375	1,647	1,202	321	1,222	1,596	1,436	962	2,335		
060	1402 1401	1,300	962	1,110	579	690	967	1,270	1,230	1,450	1,060		
Subtotal	1402 1401	1,300	962	1,110	579	690	967	1,270	1,230	1,450	1,060		
Total	1402	3,463	1,574	3,085	1,980	1,011	2,243	3,107	3,037	2,539	3,515		

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
061	1403 1408	49,960	43,220	55,790	55,080	17,150	52,700	52,530	58,050	46,780	66,550		
062	1403 1408	63,990	49,900	72,160	73,360	43,710	58,410	62,680	62,680	66,910	64,260		
063	1403 1408	3,540	2,790	6,210	6,710	4,14	6,830	16,120	14,430	3,840	7,890		
	Subtotal 1403 1408	117,490	95,910	134,160	135,150	61,274	117,940	131,330	135,160	117,530	138,700		
	Total 1403	117,490	95,910	134,160	135,150	61,274	117,940	131,330	135,160	117,530	138,700		
064	1405 1018	8,120	6,960	5,080	7,620	4,380	6,940	8,210	7,730	5,450	10,000		
	Subtotal 1405 1018	8,120	6,960	5,080	7,620	4,380	6,940	8,210	7,730	5,450	10,000		
065	1405 1401	0	0	0	0	0	0	0	0	0	0	119	
066	1405 1401	1,670	581	878	2,060	644	3,680	1,460	1,890	1,590	4,260		
067	1405 1401	459	170	335	296	25	431	258	190	60	667		
	Subtotal 1405 1401	2,129	751	1,213	2,356	669	4,111	1,718	2,080	1,650	5,046		
	Total 1405	10,249	7,711	6,293	9,976	5,049	11,051	9,928	9,810	7,100	15,046		
068	1406 1602	55,270	69,280	62,780	81,670	78,940	68,100	75,350	57,270	78,340	51,220		
069	1406 1602	21,850	16,540	18,380	15,050	5,090	20,020	31,270	14,800	25,670	13,160		
	Subtotal 1406 1602	77,120	85,820	81,160	96,720	84,030	88,120	106,620	72,070	104,010	64,380		

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance				Water-year exports (acre-feet)									
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
070	1406 1603	2,350	2,480	2,980	2,110	553	2,500	2,770	2,580	2,030	3,050		
071	1406 1603	2,140	2,090	1,280	2,300	835	2,930	2,430	2,880	1,570	3,620		
072	1406 1603	5,470	4,690	4,520	2,490	846	4,890	5,000	5,800	3,470	6,290		
	Subtotal 1406 1603	9,960	9,260	8,780	6,900	2,234	10,320	10,200	11,260	7,070	12,960		
Total 1406		87,080	95,080	89,940	103,620	86,264	98,440	116,820	83,330	111,080	77,340		
073	1408 1301	1,980	713	1,550	2,210	118	1,570	1,240	1,930	1,980	1,590		
074	1408 1301	214	62	223	86	124	0	0	0	0	0	134	
075	1408 1301	710	154	465	278	10	304	392	290	233	390		
076	1408 1301	701	134	123	227	0	63	228	150	361	629		
077	1408 1301	388	109	428	239	4	92	196	33	215	210		
	Subtotal 1408 1301	3,993	1,172	2,789	3,040	256	2,029	2,056	2,403	2,789	2,953		
078	1408 1302	174,900	47,730	145,500	84,400	19,400	105,100	164,200	143,600	53,960	127,100		
	Subtotal 1408 1302	174,900	47,730	145,500	84,400	19,400	105,100	164,200	143,600	53,960	127,100		
Total 1408		178,893	48,902	148,289	87,440	19,656	107,129	166,256	146,003	56,749	130,053		
079	1501 1506	850	1,750	1,840	1,970	2,520	3,060	3,420	3,780	4,170	3,420		
	Subtotal 1501 1506	850	1,750	1,840	1,970	2,520	3,060	3,420	3,780	4,170	3,420		
Total 1501		850	1,750	1,840	1,970	2,520	3,060	3,420	3,780	4,170	3,420		

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
080	1502 1506	6,670	10,990	11,260	14,500	6,230	6,910	9,680	10,470	6,770	6,770	9,340	
	Subtotal 1502 1506	6,670	10,990	11,260	14,500	6,230	6,910	9,680	10,470	6,770	6,770	9,340	
Total 1502		6,670	10,990	11,260	14,500	6,230	6,910	9,680	10,470	6,770	6,770	9,340	
081	1503 1507	581,050	645,630	649,620	635,040	562,640	561,700	432,730	437,880	559,000	559,000	512,680	
	Subtotal 1503 1507	581,050	645,630	649,620	635,040	562,640	561,700	432,730	437,880	559,000	559,000	512,680	
082	1503 1807	1,128,200	1,194,630	879,980	812,030	1,084,540	896,730	781,690	821,130	881,260	881,260	769,170	
	Subtotal 1503 1807	1,128,200	1,194,630	879,980	812,030	1,084,540	896,730	781,690	821,130	881,260	881,260	769,170	
083	1503 1810	3,418,000	3,743,000	3,554,000	3,497,000	3,236,000	3,211,000	3,279,000	3,353,000	3,353,000	3,353,000	3,039,000	
	Subtotal 1503 1810	3,418,000	3,743,000	3,554,000	3,497,000	3,236,000	3,211,000	3,279,000	3,353,000	3,353,000	3,353,000	3,039,000	
084	1503 8599	118,370	110,900	106,640	106,940	97,880	80,460	82,610	97,640	97,750	83,300		
085	1503 8599	---	---	---	---	---	---	---	113	1,870	13,280	26,300	
	Subtotal 1503 8599	118,370	110,900	106,640	106,940	97,880	80,460	82,723	99,510	111,030	109,600		
Total 1503		5,245,620	5,694,160	5,190,240	5,051,010	4,980,060	4,749,890	4,576,143	4,711,520	4,904,290	4,430,450		
086	1506 1504	11,320	11,030	9,210	14,240	10,200	11,480	13,480	13,840	8,960	5,580		
	Subtotal 1506 1504	11,320	11,030	9,210	14,240	10,200	11,480	13,480	13,840	8,960	5,580		

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
087	1506 1505	125,990	79,750	84,120	80,210	76,410	75,320	99,170	100,370	72,100	74,880		
088	1506 1505	164,750	84,170	90,360	90,410	77,260	103,760	24,480	136,340	69,382	88,900		
089	1506 1505	69,750	59,400	26,600	39,100	51,000	35,900	66,350	75,400	49,650	38,600		
	Subtotal 1506 1505	360,490	223,320	201,080	209,720	204,670	214,980	190,000	312,110	191,132	202,380		
	Total 1506	371,810	234,350	210,290	223,960	214,870	226,460	203,480	325,950	200,092	207,960		
090	1507 8599	214,600	210,200	213,500	205,600	155,200	1,760	3	0	0	0	0	
091	1507 8599	-----	-----	-----	-----	54,250	192,500	170,600	185,000	130,800	146,200		
	Subtotal 1507 8599	214,600	210,200	213,500	205,600	209,450	194,260	170,603	185,000	130,800	146,200		
	Total 1507	214,600	210,200	213,500	205,600	209,450	194,260	170,603	185,000	130,800	146,200		
092	1605 1802	-----	1,430	1,470	3,570	2,720	1,130	1,940	1,950	1,740	3,010		
093	1605 1802	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
	Subtotal 1605 1802	2,000	3,430	3,470	5,570	4,720	3,130	3,940	3,950	3,740	5,010		
	Total 1605	2,000	3,430	3,470	5,570	4,720	3,130	3,940	3,950	3,740	5,010		
094	1606 1602	724	724	724	724	724	724	724	724	724	724	724	
	Subtotal 1606 1602	724	724	724	724	724	724	724	724	724	724	724	
	Total 1606	724	724	724	724	724	724	724	724	724	724	724	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)										
Ref- erence	Subregion	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
095	1704 1601	2/800	2/1,000	2/1,200	2/1,000	2/500	2/900	2/1,000	2/1,000	2/1,300	2/1,400	
Subtotal 1704 1601		800	1,000	1,200	1,000	500	900	1,000	1,000	1,300	1,400	
Total 1704		800	1,000	1,200	1,000	500	900	1,000	1,000	1,300	1,400	
096	1705 1704	2/3,000	2/4,000	2/3,000	2/2,000	2/1,000	2/2,000	2/2,500	2/3,000	2/3,500	2/4,000	
Subtotal 1705 1704		3,000	4,000	3,000	2,000	1,000	2,000	2,500	3,000	3,500	4,000	
Total 1705		3,000	4,000	3,000	2,000	1,000	2,000	2,500	3,000	3,500	4,000	
097	1706 1704	2/350	2/400	2/325	2/300	2/200	2/325	2/350	2/350	2/350	2/400	
Subtotal 1706 1704		350	400	325	300	200	325	350	350	350	400	
098	1706 1705	2/5,000	2/6,000	2/6,000	2/5,000	2/4,000	2/4,000	2/5,000	2/5,000	2/5,000	2/6,200	
099	1706 1705	2/500	2/500	2/500	2/450	2/300	2/500	2/500	2/520	2/550	2/600	
Subtotal 1706 1705		5,500	6,500	6,500	5,450	2,300	4,500	5,500	5,520	5,550	6,800	
Total 1706		5,850	6,900	6,825	5,750	2,500	4,825	5,850	5,870	5,900	7,200	
100	1707 1705	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	2/1,700	
Subtotal 1707 1705		1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	
Total 1707		1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)												
Ref- erence	Subregion	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	
101	1710 1709			2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	2/2,000	
102	1710 1709	1,090	1,210	1,230	1,230	314	576	170	966	1,160	763	1,320		
	Subtotal 1710 1709			3,090	3,210	3,230	2,314	2,576	2,170	2,966	3,160	2,763	3,320	
	Total 1710			3,090	3,210	3,230	3,314	3,576	2,170	2,966	3,160	2,763	3,320	
103	1801 1710			7,350	3,520	750	4,070	8,540	5,940	(3/)	(3/)	(3/)	(3/)	
104	1801 1710	22,400	24,200	24,900	23,800	22,500	19,600	21,000	20,900	21,400	23,300			
	Subtotal 1801 1710			29,750	27,720	25,650	27,870	31,040	25,540	21,000	20,900	21,400	23,300	
105	1801 1802			1,220,000	1,800,000	1,035,000	1,039,000	1,318,000	217,600	782,700	885,400	709,700	1,094,000	
	Subtotal 1801 1802			1,220,000	1,800,000	1,035,000	1,039,000	1,318,000	217,600	782,700	885,400	709,700	1,094,000	
106	1801 1805			8,880	8,250	8,620	12,110	15,260	9,080	12,810	12,830	15,290	13,090	
	Subtotal 1801 1805			8,880	8,250	8,620	12,110	15,260	9,080	12,810	12,830	15,290	13,090	
	Total 1801			1,258,630	1,835,970	1,069,270	1,078,980	1,364,300	252,220	816,510	919,130	746,390	1,130,390	
107	1802 1808			600	600	600	600	600	600	600	600	600	600	
	Subtotal 1802 1808			600	600	600	600	600	600	600	600	600	600	
	Total 1802			600	600	600	600	600	600	600	600	600	600	

Table 3.--Exports of water from water-resources subregions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Subregion	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	
108	1804 1803	1,371,000	1,668,000	1,392,000	570,900	264,000	1,067,000	1,681,000	1,357,000	981,000	1,678,000		
	Subtotal 1804 1803	1,371,000	1,668,000	1,392,000	570,900	264,000	1,067,000	1,681,000	1,357,000	981,000	1,678,000		
109	1804 1805	212,300	200,700	234,000	227,500	255,700	140,600	108,000	184,700	218,100	200,000		
	Subtotal 1804 1805	212,300	200,700	234,000	227,500	255,700	140,600	108,000	184,700	218,100	200,000		
110	1804 1807	449,100	556,200	646,200	358,800	164,300	841,400	631,300	560,000	1,007,000	979,700		
	Subtotal 1804 1807	449,100	556,200	646,200	358,800	164,300	841,400	631,300	560,000	1,007,000	979,700		
30	Total 1804	2,032,400	2,242,900	2,272,200	1,157,200	648,000	2,049,000	2,420,300	2,101,700	2,206,100	2,857,700		
111	1809 1807	461,300	459,400	460,200	459,800	284,500	428,700	501,400	501,300	480,800	474,700		
	Subtotal 1809 1807	461,300	459,400	460,200	459,800	284,500	428,700	501,400	501,300	480,800	474,700		
	Total 1809	461,300	459,400	460,200	459,800	284,500	428,700	501,400	501,300	480,800	474,700		
	Grand Total	12,877,088	14,228,736	12,247,886	10,894,129	11,143,270	11,658,748	11,659,616	11,707,578	12,433,536			

1/Data not available; Wyoming State Engineer's office advises little use, if any, in recent years.

2/Estimated.

3/Data not available.

Table 4.--Exports of water from water-resources regions, water years 1973-82

[Dashes in year column indicate no data]

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Region number	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
016	10	07	---	---	---	---	---	12	24	36	48	60	72
018	10	07	---	---	---	---	---	---	154	309	463	617	772
025	10	07	---	---	---	---	---	---	77	154	231	309	386
026	10	07	---	---	---	---	---	---	---	---	---	---	---
Subtotal	10	07	---	---	---	---	12	24	267	511	754	1,005	1,257
027	10	11	13,224	13,867	13,500	14,235	14,969	15,980	15,980	17,269	17,269	6,327	11,226
Subtotal	10	11	13,224	13,867	13,500	14,235	14,969	15,980	15,980	17,269	17,269	6,327	11,226
013	10	14	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)
Subtotal	10	14	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)	(1/)
Total	10	13,224	13,867	13,500	14,247	14,993	16,247	16,491	18,023	7,332	7,332	12,483	12,483
028	11	10	6,750	10,790	8,880	8,110	10,460	12,560	12,410	9,280	12,350	2,140	2,140
029	11	10	---	---	2/9	2/9	2/9	2/9	2/9	2/9	2/9	2/9	2/9
030	11	10	---	2/50	2/60	2/70	2/80	2/100	2/120	2/140	2/160	2/160	2/180
Subtotal	11	10	6,750	10,840	8,949	8,189	10,549	12,669	12,539	9,429	12,519	2,329	2,329
• Total	11	6,750	10,840	8,949	8,189	10,549	12,669	12,539	9,429	12,519	2,329	2,329	2,329
037	12	08	---	---	---	---	---	---	---	---	32,570	32,430	32,430
Subtotal	12	08	---	---	---	---	---	---	---	---	32,570	32,430	32,430

Table 4.--Exports of water from water-resources regions, water years 1973-82--Continued

Conveyance				Water-year exports (acre-feet)								
Ref- erence number	Region	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
038	12 11	---	---	---	---	---	---	---	---	460	8,940	
Subtotal	12 11	---	---	---	---	---	---	---	---	460	8,940	
Total	12	---	---	---	---	---	---	---	---	33,030	41,370	
040	13 11	2/1,100	0	416	660	425	517	1,460	2900	181	1,290	
Subtotal	13 11	1,100	0	416	660	425	517	1,460	900	181	1,290	
Total	13	1,100	0	416	660	425	517	1,460	900	181	1,290	
041	14 10	57	58	12	31	276	256	627	376	881	586	
042	14 10	33,170	68,120	58,580	62,950	50,000	81,590	55,740	39,260	53,920	87,840	
043	14 10	14,760	15,640	21,830	18,350	12,760	25,230	17,940	13,330	13,700	21,860	
044	14 10	2,250	34,730	47,260	63,050	92,140	133,800	73,850	51,940	110,200	68,010	
045	14 10	0	15	0	7	0	42	60	0	0	0	
046	14 10	230,700	231,100	239,300	256,100	294,400	262,700	197,300	158,900	252,600	248,500	
047	14 10	753	809	402	359	322	677	373	777	463	426	
048	14 10	0	6	39	68	13	174	154	33	0	0	
064	14 10	8,120	6,960	5,080	7,620	4,380	6,940	8,210	7,730	5,450	10,000	
Subtotal	14 10	289,810	357,448	372,503	408,535	454,291	511,409	354,254	272,346	437,214	437,222	
049	14 11	3,250	2,910	3,430	2,590	765	3,840	4,310	3,340	851	3,780	
050	14 11	55,900	43,490	49,540	41,850	22,490	51,770	47,060	22,810	34,340	54,030	
051	14 11	1,110	934	1,140	904	534	1,280	1,590	1,160	428	1,120	
052	14 11	23,400	25,030	59,870	0	31,040	0	30,780	31,960	21,290	19,720	
053	14 11	5,830	10,780	8,460	10,750	2,530	9,750	9,910	5,700	5,650	10,590	

Table 4.--Exports of water from water-resources regions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)											
Ref- erence number	Region	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
054	14	11	1,900	1,690	2,000	1,660	1,010	1,990	2,040	1,780	921	1,910	
055	14	11	6,320	5,680	7,100	4,800	3,110	7,470	6,710	5,950	4,560	6,840	
056	14	11	36,580	33,830	36,870	26,940	11,410	49,960	54,020	55,390	34,190	75,490	
057	14	11	759	237	328	199	0	54	241	371	127	120	
Subtotal	14	11	135,049	124,581	168,738	89,693	72,889	126,114	156,661	128,461	102,357	173,600	
058	14	13	1,330	209	955	540	149	719	1,300	894	671	1,600	
059	14	13	74	166	692	662	172	503	296	542	291	735	
073	14	13	1,980	713	1,550	2,210	118	1,570	1,240	1,930	1,980	1,590	
074	14	13	214	62	223	86	124	0	0	0	0	134	
075	14	13	710	154	465	278	10	304	392	290	233	390	
076	14	13	701	134	123	227	0	63	228	150	361	629	
077	14	13	388	109	428	239	4	92	196	33	215	210	
078	14	13	174,900	47,730	145,500	84,400	19,400	105,100	164,200	143,600	53,960	127,100	
Subtotal	14	13	180,297	49,277	149,936	88,642	19,977	108,351	167,852	147,439	57,711	132,388	
068	14	16	55,270	69,280	62,780	81,670	78,940	68,100	75,350	57,270	78,340	51,220	
069	14	16	21,850	16,540	18,380	15,050	5,090	20,020	31,270	14,800	25,670	13,160	
070	14	16	2,350	2,480	2,980	2,110	553	2,500	2,770	2,580	2,030	3,050	
071	14	16	2,140	2,090	1,280	2,300	835	2,930	2,430	2,880	1,570	3,620	
072	14	16	5,470	4,690	4,520	2,490	846	4,890	5,000	5,800	3,470	6,290	
Subtotal	14	16	87,080	95,080	89,940	103,620	86,264	98,440	116,820	83,330	111,080	77,340	
Total	14		692,236	626,386	781,117	690,490	633,421	844,314	795,587	631,576	708,362	820,550	
079	15	16	850	1,750	1,840	1,970	2,520	3,060	3,420	3,780	4,170	3,420	
Subtotal	15	16	850	1,750	1,840	1,970	2,520	3,060	3,420	3,780	4,170	3,420	

Table 4.--Exports of water from water-resources regions, water years 1973-82--Continued

Conveyance				Water-year exports (acre-feet)								
Ref- erence number	Region	From To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
082	15	18	1,128,200	1,194,630	879,980	812,030	1,084,540	896,730	781,690	821,130	881,260	769,170
083	15	18	3,418,000	3,743,000	3,554,000	3,497,000	3,236,000	3,211,000	3,279,000	3,353,000	3,353,000	3,039,000
Subtotal 15	18	4,546,200	4,937,630	4,433,980	4,309,030	4,320,540	4,107,730	4,060,690	4,174,130	4,234,260	3,808,170	
084	15	85	118,370	110,900	106,640	106,940	97,880	80,460	82,610	97,640	97,750	83,300
085	15	85	---	---	---	---	---	---	113	1,870	13,280	26,300
086	15	85	214,600	210,200	213,500	205,600	155,200	1,760	3	0	0	0
091	15	85	---	---	---	---	54,250	192,500	170,600	185,000	130,800	146,200
Subtotal 15	85	332,970	321,100	320,140	312,540	307,330	274,720	253,326	284,510	241,830	255,800	
Total 15		4,880,020	5,260,480	4,755,960	4,623,540	4,630,390	4,385,510	4,317,436	4,462,420	4,480,260	4,067,390	
34												
092	16	18	---	1,430	1,470	3,570	2,720	1,130	1,940	1,950	1,740	3,010
093	16	18	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Subtotal 16	18	2,000	3,430	3,470	5,570	4,720	3,130	3,940	3,950	3,740	5,010	
Total 16		2,000	3,430	3,470	5,570	4,720	3,130	3,940	3,950	3,740	5,010	
095	17	16	2/800	2/1,000	2/1,200	2/1,000	2/500	2/900	2/1,000	2/1,000	2/1,300	2/1,400
Subtotal 17	16		800	1,000	1,200	1,000	500	900	1,000	1,000	1,300	1,400
Total 17			800	1,000	1,200	1,000	500	900	1,000	1,000	1,300	1,400

Table 4.--Exports of water from water-resources regions, water years 1973-82--Continued

Conveyance		Water-year exports (acre-feet)												
Ref- erence	Region	From	To	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	
103	18	17		7,350	3,520	750	4,070	8,540	5,940	(3/)	(3/)	(3/)	(3/)	
104	18	17	22,400	24,200	24,900	23,800	22,500	19,600	21,000	20,900	21,400	23,300		
Subtotal	18	17	29,750	27,720	25,650	27,870	31,040	25,540	21,000	20,900	21,400	23,300		
Total	18		29,750	27,720	25,650	27,870	31,040	25,540	21,000	20,900	21,400	23,300		
Grand Total			5,627,690	5,944,423	5,590,262	5,371,566	5,326,038	5,288,827	5,169,453	5,148,198	5,268,124	4,975,122		

1/Data not available; Wyoming State Engineer's office advises little use, if any, in recent years.

2/Estimated.

3/Data not available.

Table 5.--State and county codes<sup>1/</sup>

Arizona (04)		Colorado--Continued		Iowa--Continued		Montana (30)		Oklahoma--Continued	
County	County	County	County	County	County	County	County	County	County
005 Coccino	047 Gilpin	027 Carroll	035 Glacier	097 Mayes					
007 Gila	049 Grand	041 Clay		143 Tulsa					
009 Graham	051 Gunnison	117 Lucas							
013 Maricopa	053 Hinsdale	123 Mahaska							
027 Yuma	055 Huerfano	125 Marion							
	057 Jackson	127 Marshall	055 Douglas						
	059 Jefferson	149 Plymouth	101 Keith						
001 Alameda	065 Lake	155 Pottawattamie	125 Nance						
017 El Dorado	069 Larimer	165 Shelby	153 Sarpy						
019 Fresno	077 Mesa	167 Sioux							
025 Imperial	079 Mineral	177 Van Buren							
	083 Montezuma	179 Wapello							
027 Inyo	093 Park		003 Clark						
029 Kern	097 Pitkin		007 Elko						
037 Los Angeles	107 Routt								
049 Modoc	109 Saguache	009 Barton							
065 Riverside	117 Summit	035 Cowley							
071 San Bernardino	119 Teller	045 Douglas	019 Calcasieu						
081 San Mateo		059 Franklin	031 De Soto						
089 Shasta	Idaho (16)	079 Harvey							
091 Sierra	County	091 Johnson							
097 Sonoma	003 Adams	113 McPherson							
105 Trinity	037 Custer	115 Marion	039 Rio Arriba						
109 Tuolumne	071 Oneida	121 Miami							
	073 Owyhee	139 Osage							
	083 Twin Falls	167 Russell							
	085 Valley	177 Shawnee							
007 Archuleta		191 Sumner							
015 Chaffee	Iowa (19)								
019 Clear Creek	County								
037 Eagle	007 Appanoose								
045 Garfield	009 Audubon	077 Greene							

<sup>1/</sup>The state codes appear in National Bureau of Standards (1970). The county codes appear in National Bureau of Standards (1982).

Table 6.--Hydrologic-unit codes and names1/

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Region 07 Upper Mississippi region.

Subregion 0708 -- Upper Mississippi-Iowa-Skunk-Wapsipinicon.  
Accounting unit 070801 -- Upper Mississippi-Skunk-Wapsipinicon.  
Cataloging units 07080105 -- South Skunk.  
07080107 -- Skunk.

Subregion 0710 -- Des Moines.  
Accounting unit 071000 -- Des Moines.  
Cataloging units 07100004 -- Middle Des Moines.  
07100006 -- North Raccoon.  
07100008 -- Lake Red Rock.  
07100009 -- Lower Des Moines.

Subregion 0711 -- Upper Mississippi-Salt.  
Accounting unit 071100 -- Upper Mississippi-Salt.  
Cataloging unit 07110001 -- Bear-Wyaconda.

Region 08 Lower Mississippi region.

Subregion 0808 -- Louisiana Costal.  
Accounting unit 080802 -- Calcasieu - Mermentau  
Cataloging unit 08080206 -- Lower Calcasieu

Region 10 Missouri region.

Subregion 1001 -- Saskatchewan.  
Accounting unit 100100 -- Saskatchewan.  
Cataloging unit 10010002 -- St. Mary.

Subregion 1005 -- Milk.  
Accounting unit 100500 -- Milk.  
Cataloging unit 10050002 -- Upper Milk.

Subregion 1011 -- Missouri-Little Missouri.  
Accounting unit 101101 -- Lake Sakakawea.  
Cataloging unit 10110101 -- Lake Sakakawea.

Subregion 1013 -- Missouri-Oahe.  
Accounting unit 101302 -- Cannonball-Heart-Knife.  
Cataloging unit 10130201 -- Knife.

Subregion 1017 -- Missouri-Big Sioux.  
Accounting unit 101702 -- Big Sioux.  
Cataloging unit 10170203 -- Lower Big Sioux.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 10 Missouri--Continued

Subregion 1018 -- North Platte.

Accounting unit 101800 -- North Platte.

Cataloging units 10180001 -- North Platte Headwaters.

10180002 -- Upper North Platte.

10180006 -- Sweetwater.

10180010 -- Upper Laramie.

10180014 -- Lower North Platte.

Subregion 1019 -- South Platte.

Accounting unit 101900 -- South Platte.

Cataloging units 10190001 -- South Platte Headwaters.

10190002 -- Upper South Platte.

10190004 -- Clear.

10190005 -- St. Vrain.

10190006 -- Big Thompson.

10190007 -- Cache la Poudre.

10190009 -- Crow.

10190018 -- Lower South Platte.

Subregion 1020 -- Platte.

Accounting unit 102001 -- Middle Platte.

Cataloging unit 10200103 -- Middle Platte-Prairie.

Accounting unit 102002 -- Lower Platte.

Cataloging unit 10200202 -- Lower Platte.

Subregion 1021 -- Loup.

Accounting unit 102100 -- Loup.

Cataloging unit 10210009 -- Loup.

Subregion 1023 -- Missouri-Little Sioux.

Accounting unit 102300 -- Missouri-Little Sioux.

Cataloging units 10230002 -- Floyd.

10230003 -- Little Sioux.

10230006 -- Big Papillion-Mosquito.

10230007 -- Boyer.

Subregion 1024 -- Missouri-Nishnabotna.

Accounting unit 102400 -- Missouri-Nishnabotna.

Cataloging unit 10240002 -- West Nishnabotna.

Subregion 1026 -- Smoky Hill.

Accounting unit 102600 -- Smoky Hill.

Cataloging units 10260006 -- Middle Smoky Hill.

10260008 -- Lower Smoky Hill.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 10 Missouri--Continued

Subregion 1027 -- Kansas.

Accounting unit 102701 -- Kansas.

Cataloging units 10270102 -- Middle Kansas.  
10270104 -- Lower Kansas.

Subregion 1028 -- Chariton-Grand.

Accounting unit 102802 -- Chariton.

Cataloging unit 10280201 -- Upper Chariton.

Subregion 1029 -- Gasconade-Osage.

Accounting unit 102901 -- Osage.

Cataloging units 10290101 -- Upper Marais Des Cygnes.  
10290102 -- Lower Marais Des Cygnes.  
10290106 -- Sac.

Subregion 1030 -- Lower Missouri.

Accounting unit 103001 -- Lower Missouri-Blackwater.

Cataloging unit 10300101 -- Lower Missouri-Crooked.

Region 11 Arkansas-White-Red region.

Subregion 1101 -- Upper White.

Accounting unit 110100 -- Upper White.

Cataloging unit 11010002 -- James.

Subregion 1102 -- Upper Arkansas.

Accounting unit 110200 -- Upper Arkansas.

Cataloging units 11020001 -- Arkansas Headwaters.  
11020003 -- Fountain.  
11020006 -- Huerfano.

Subregion 1103 -- Middle Arkansas

Accounting unit 110300 -- Middle Arkansas.

Cataloging units 11030008 -- Lower Walnut Creek.  
11030012 -- Little Arkansas.  
11030013 -- Middle Arkansas-Slate.

Subregion 1106 -- Arkansas - Keystone.

Accounting unit 110600 -- Arkansas - Keystone.

Cataloging unit 11060005 -- Chikaskia.

Subregion 1107 -- Neosho - Verdigris.

Accounting unit 110702 -- Neosho.

Cataloging units 11070202 -- Upper Cottonwood.  
11070209 -- Lower Neosho.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 11 Arkansas-White-Red--Continued

Subregion 1110 -- North Canadian.  
    Accounting unit 111003 -- Lower North Canadian.  
    Cataloging unit 11100302 -- Lower North Canadian.  
Subregion 1111 -- Lower Arkansas.  
    Accounting unit 111101 -- Robert S. Kerr Reservoir.  
    Cataloging unit 11010101 -- Polecat-Snake.  
Subregion 1114 -- Red-Sulphur.  
    Accounting unit 111401 -- Red-Little.  
    Cataloging unit 11140103 -- Muddy Boggy.  
    Accounting unit 111402 -- Red-Saline.  
    Cataloging unit 11140206 -- Bayou Pierre.

Region 12 Texas-Gulf region.

Subregion 1201 -- Sabine.  
    Accounting unit 120100 -- Sabine.  
    Cataloging units 12010001 -- Upper Sabine.  
                        12010004 -- Toledo Bend Reservoir.  
                        12010005 -- Lower Sabine.  
  
Subregion 1203 -- Trinity.  
    Accounting unit 120301 -- Upper Trinity.  
    Cataloging unit 12030106 -- East Fork Trinity.

Region 13 Rio Grande region.

Subregion 1301 -- Rio Grande Headwaters.  
    Accounting unit 130100 -- Rio Grande Headwaters.  
    Cataloging units 13010001 -- Rio Grande Headwaters.  
                        13010003 -- San Luis.  
                        13010004 -- Saguache.  
  
Subregion 1302 -- Rio Grande-Elephant Butte  
    Accounting unit 130201 -- Upper Rio Grande.  
    Cataloging unit 13020102 -- Rio Chama.

Region 14 Upper Colorado region.

Subregion 1401 -- Colorado Headwaters.  
    Accounting unit 140100 -- Colorado Headwaters.  
    Cataloging units 14010001 -- Colorado Headwaters.  
                        14010002 -- Blue.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 14 Upper Colorado--Continued

Subregion 1401 -- Colorado Headwaters--Continued

Accounting unit 140100 -- Colorado Headwaters--Continued

14010003 -- Eagle.

14010004 -- Roaring Fork.

14010005 -- Colorado Headwaters-Plateau.

Subregion 1402 -- Gunnison.

Accounting unit 140200 -- Gunnison.

Cataloging units 14020002 -- Upper Gunnison.

14020003 -- Tomichi.

14020004 -- North Fork Gunnison.

Subregion 1403 -- Upper Colorado-Dolores:

Accounting unit 140300 -- Upper Colorado-Dolores.

Cataloging unit 14030002 -- Upper Dolores.

Subregion 1404 -- Great Divide - Upper Green.

Accounting unit 140401 -- Upper Green.

Cataloging unit 14040104 -- Big Sandy.

Subregion 1405 -- White-Yampa.

Accounting unit 140500 -- White - Yampa.

Cataloging units 14050001 -- Upper Yampa.

14050003 -- Little Snake.

Subregion 1406 -- Lower Green.

Accounting unit 140600 -- Lower Green.

Cataloging units 14040003 -- Duchesne.

14060004 -- Strawberry.

14060009 -- San Rafael.

Subregion 1408 -- San Juan.

Accounting unit 140801 -- Upper San Juan.

Cataloging units 14080101 -- Upper San Juan.

14080102 -- Piedra.

Accounting unit 140802 -- Lower San Juan.

Cataloging unit 14080202 -- Mc Elmo.

Region 15 Lower Colorado region.

Subregion 1501 -- Lower Colorado-Lake Mead

Accounting unit 150100 --Lower Colorado-Lake Mead.

Cataloging unit 15010005 -- Lake Mead.

Subregion 1502 -- Little Colorado.

Accounting unit 150200 -- Little Colorado.

Cataloging unit 15020008 -- Middle Little Colorado.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 15 Lower Colorado--Continued

Subregion 1503 -- Lower Colorado.  
Accounting unit 150301 -- Lower Colorado.  
Cataloging units 15030101 -- Havasu-Mohave Lakes.  
15030107 -- Lower Colorado.  
15030108 -- Yuma Desert.

Subregion 1504 -- Upper Gila.  
Accounting unit 150400 -- Upper Gila.  
Cataloging unit 15040004 -- San Francisco.

Subregion 1505 -- Middle Gila.  
Accounting unit 150501 -- Middle Gila.  
Cataloging unit 15050100 -- Middle Gila.

Subregion 1506 -- Salt.  
Accounting unit 150601 -- Salt.  
Cataloging units 15060101 -- Black.  
15060106 -- Lower Salt.

Accounting unit 150602 -- Verde.  
Cataloging unit 15060203 -- Lower Verde.

Subregion 1507 -- Lower Gila.  
Accounting unit 150702 -- Lower Gila.  
Cataloging unit 15070201 -- Lower Gila.

Region 16 Great Basin region.

Subregion 1601 -- Bear.  
Accounting unit 160102 -- Lower Bear.  
Cataloging unit 16010204 -- Lower Bear-Malad.

Subregion 1602 -- Great Salt Lake.  
Accounting unit 160202 -- Jordan.  
Cataloging units 16020202 -- Spanish Fork.  
16020203 -- Provo.

Accounting unit 160203 -- Great Salt Lake.  
Cataloging unit 16020306 -- Southern Great Salt Lake Desert.

Subregion 1603 -- Escalante Desert-Sevier Lake.  
Accounting unit 160300 -- Escalante Desert-Sevier Lake.  
Cataloging unit 16030004 -- San Pitch.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 16 Great Basin--Continued

Subregion 1605 -- Central Lahontan.  
Accounting unit 160501 -- Truckee.  
Cataloging unit 16050101 -- Lake Tahoe.

Subregion 1606 -- Central Nevada Desert Basins.  
Accounting unit 160600 -- Central Nevada Desert Basins.  
Cataloging units 16060008 -- Spring-Steptoe Valleys.  
16060015 -- Ivanpah-Pahrump Valleys.

Region 17 Pacific Northwest region.

Subregion 1704 -- Upper Snake.  
Accounting unit 170402 -- Upper Snake.  
Cataloging units 17040208 -- Portneuf.  
17040213 -- Salmon Falls.  
17040217 -- Little Lost.

Subregion 1705 -- Middle Snake.  
Accounting unit 170501 -- Middle Snake-Boise.  
Cataloging units 17050102 -- Bruneau.  
17050120 -- South Fork Payette.  
17050124 -- Weiser.

Accounting unit 170502 -- Middle Snake-Powder.  
Cataloging unit 17050202 -- Burnt.

Subregion 1706 -- Lower Snake.  
Accounting unit 170602 -- Salmon.  
Cataloging units 17060202 -- Pahsimeroi.  
17060208 -- South Fork Salmon.  
17060210 -- Little Salmon.

Subregion 1707 -- Middle Columbia.  
Accounting unit 170702 -- John Day.  
Cataloging unit 17070202 -- North Fork John Day.

Subregion 1709 -- Willamette.  
Accounting unit 170900 -- Willamette.  
Cataloging units 17090008 -- Yamhill.  
17099910 -- Tualatin.

Subregion 1710 -- Oregon-Washington Coastal.  
Accounting unit 171002 -- Northern Oregon Coastal.  
Cataloging unit 17100203 -- Wilson-Trusk-Nestuccu.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 17 Pacific Northwest--Continued

Subregion 1710 -- Oregon-Washington Coastal--Continued

Accounting unit 171003 -- Southern Oregon Coastal.

Cataloging units 17100307 -- Upper Rogue.

17100308 -- Middle Rogue.

Region 18 California region.

Subregion 1801 -- Klamath-Northern California Coastal.

Accounting unit 180101 -- Northern California Coastal.

Cataloging unit 18010110 --Russian.

Accounting unit 180102 -- Klamath.

Cataloging units 18010203 -- Upper Klamath Lake.

18010206 -- Upper Klamath.

18010211 -- Trinity.

Subregion 1802 -- Sacramento.

Accounting unit 180200 -- Upper Sacramento.

Cataloging unit 18020002 -- Upper Pit.

Accounting unit 180201 -- Lower Sacramento.

Cataloging units 18020112 -- Sacramento-Upper Clear.

18020123 -- Middle Fork Feather.

18020129 -- South Fork American.

Subregion 1803 -- Tulare-Buena Vista Lakes.

Accounting unit 180300 -- Tulare-Buena Vista Lakes.

Cataloging unit 18030012 -- Tulare-Buena Vista Lakes.

Subregion 1804 -- San Joaquin.

Accounting unit 180400 -- San Joaquin.

Cataloging units 18040003 -- San Joaquin Delta.

18040006 -- Upper San Joaquin.

18040009 -- Upper Tuolumne.

Subregion 1805 -- San Francisco Bay.

Accounting unit 180500 -- San Francisco Bay.

Cataloging units 18050002 -- San Pablo Bay.

18050004 -- San Francisco Bay.

Subregion 1807 -- Southern California Coastal.

Accounting unit 180701 -- Ventura-San Gabriel Coastal.

Cataloging unit 18070102 -- Santa Clara.

Accounting unit 180702 -- Santa Ana.

Cataloging unit 18070203 -- Santa Ana.

Table 6.--Hydrologic-unit codes and names--Continued

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Region 18 California--Continued

Subregion 1808 -- North Lahontan.  
Accounting unit 180800 -- North Lahontan.  
Cataloging unit 18080001 -- Surprise Valley.

Subregion 1809 -- Northern Mojave-Mono Lake.  
Accounting unit 180901 -- Mono-Owens Lakes.  
Cataloging unit 18090103 -- Owens Lake.

Subregion 1810 -- Southern Mojave-Salton Sea.  
Accounting unit 181002 -- Salton Sea.  
Cataloging unit 18100200 -- Salton Sea.

Other countries 2/

Region 85 Mexico.

Subregion 8599 -- Mexico.  
Accounting unit 859900 -- Mexico.  
Cataloging unit 85990000 -- Mexico.

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1/The hydrologic-unit codes appear in U.S. Geological Survey  
(1982a).

2/For other countries, hydrologic-unit codes were devised  
for this report.